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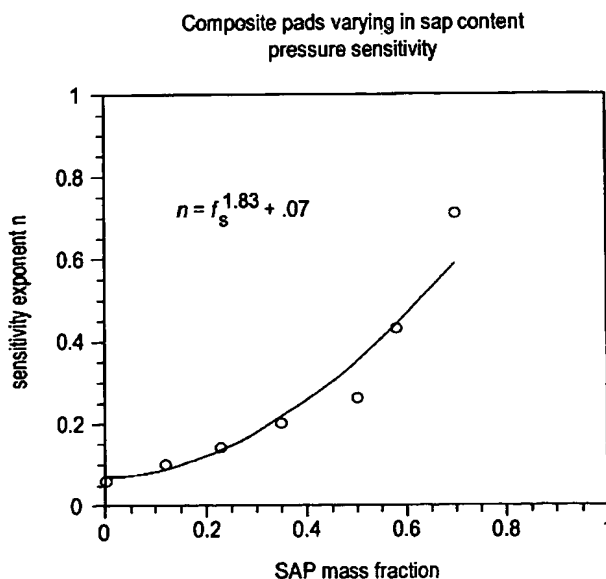
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- (71) Applicant (for all designated States except US): **DOW GLOBAL TECHNOLOGIES INC.** [US/US]; Washington Street, 1790 Building, Midland, MI 48674 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BUCHHOLZ, Fredric, L.** [US/US]; 256 East Youngs Court, Midland, MI 48640 (US). **ALLAN, David, S.** [US/US]; 5402 Nakoma Drive, Midland, MI 48640 (US). **WEIR, Joseph, L.** [US/US]; 1009 Scott Street, Midland, MI 48640 (US).
- (74) Agent: **HAYHURST, Paul, D.**; The Dow Chemical Company, Intellectual Property, P.O. Box 1967, Midland, MI 48641-1967 (US).
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(54) Title: DESIGNING DRY AND POROUS ABSORBENT COMPOSITES CONTAINING SUPER-ABSORBENT POLYMERS



(57) Abstract: Super-absorbent polymer composites and a method for designing the composites are presented. A target weight of aqueous liquid to be absorbed is used in conjunction with a dryness quality value and, optionally, a porosity quality value to define types and masses of both super-absorbent polymer and a substruction meshwork which are intermixed to provide a composite which optimally minimizes free liquid and provides sustained tactile dryness after the targeted weight of aqueous liquid has been absorbed. In one form of the invention, the super-absorbent polymer and/or absorption composite derive from the use of computer-implemented determination of the absorption design-instance parameters.

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